It Alds Materially in Keeping the Supply of Plant Food in the Soil.

Different plants require different elements of plant growth. Some varieties of plants will make a thrifty growth where other varieties would starve, or at least the growth and yield would not be profitable. If the same crops are grown continuously on the same land, even with liberal manuring, there is almost certain to be an excess of some of the elements of plant food, as each variety will use only the proportion it needs, while the rest will be left; and with farm manure, at least, nearly or quite all the elements of nutrition will be supplied if a good application of well-rotted manure is

Buckwheat and rye can be grown on soils so poor that very few other crops will hold a thrifty growth. Clover is largely relied upon to restore the fertility of a worn-out soil, but either of them can be grown in a soil too deficient in the elements of plant food for clover to make a good growth. One of the great advantages of clover, when a good growth can be secured, is that it not only supplies a considerable quantity of fertilizing material in itself, but so acts on the soil as to make available

plant food that is already in the soil. In planning a rotation one crop should follow another that as far as possible uses different elements of plant food. While there is quite a number of different elements of plant growth, there are three-nitrogen, phosphoric acid and potash-that are the principal ones, and in supplying these a sufficient quantity of the others is usually secured.

Some plants use a larger proportion of nitrogen, others of phosphoric acid, while potash is a necessary element with others. Very few of the leading crops use either of these in the same proportion, and if the best result from a rotation is secured, it will be found an item to arrange the crops so that those that use different elements can follow. Where one crop is raised continuously manures or fertilizers are used to keep up the fertility; if too long continued there is almost certain to be an excess of other elements. Hence after corn has been raised continuously until the land will not grow good crops of this cereal, wheat or oats may be sown and a very profitable crop may be grown.

Very few plants, even if fed out to results at a low cost. Yet it can hardly be said that it is safe to rely upon a sharp knife make two cross cuts on commercial fertilizers, either to keep up the fertility or to give good crops. Some varieties of plants thrive best in new land, while better crops of others can be made after two or three crops of other plants have been grown. So that it is quite an item to understand the character of the soil and then determine the treatment. A rotation, if properly managed, will not prove so exhausting to the soil even if no manure or fertilizer is applied. And where care is taken to feed out the products to the stock, to make, save and apply all the manure possible, to use green manure at every favorable fill a four-quart vessel. opportunity. A good plan of rotation will aid materially in building up the supply of available plant food in the soil. With heavy manuring it is possible to grow large crops of the same kind upon the same land, but the expense of manuring is always more than where a rotation is followed from the start. With a few special crops this plan will be advisable, but generally the better plan of management is to plan out a system of rotation, using such crops as are best adapted to the character of the soil and the locality, and then following it as closely as circumstances will admit, lessening in this way the drain upon the soil and rendering it more possible to be kept in a good state of fertility. -St. Louis

BOTANICAL WONDERS.

Rare Results of Wealth and Experience in

A center of the botanical world here is the Pommes de Terre Club. One of the great practical botanists of France is M. de Vilmorin, a wealthy landowner, who devotes himself to experimental culture. He had the recent congress of botanists down to lunch at Verrieres, a delicious village nestling on a hill to the south of the forest-clad plateau lying between that place and Versailles. M. de Vilmorin is vicepresident of the Horticultural Society of France. He keeps 100 gardeners in his Verriers grounds. They rear every variety of ernamental flowers and useful plants that can be grown in the northern part of France. A part of their business is to produce new varieties. The hundred work upon a stretch of land-a good deal of it hilly, with the watershed to the southdivided into 12,000 plots. Each plot is given up to a distinct variety.

A plant that has got crossed by accident with a kindred species is looked upon as having lost caste, and is burned. The hecatombs of these vegetable pariahs are colossal. Said one of the gardeners, they talk of the difficulty of keeping canine races pure. It is child's play compared to that of keeping plants from being crossed with kindred species. They don't want to be too handsome or too pulpy or succulent, and they are always trying to revert to hardy primitive types. Such types defy the insect world, and are a protection from human beings, they not being of much use to them. does not give up and leave you mired Sometimes there are not four plants in | in a mud hole; it has the spirit, the a whole plot that are judged fit to be courage, to exert itself to the utmost. preserved. New species are created Among horses, it is the one with th by process of selection. They are the trained spirit, fine temper, that does glory of the jardiniere or of the dinner | the most work, the least harm, and in

distinguished botanist, and created a Arabian, and what horse is more dobotanical museum at Verrieres, which | cile, more enduring or admirable? is a thing to see. Strangers can visit it certain hours of the day. Of vegetable rarities of the edible sort pro- is not going to get caught in another table rarities of the edible sort produced on the estate there are wax models, and there are (I am afraid you won't believe it) 1.200 varieties of the edible sort produced on the estate there are wax models, and there are (I am afraid you won't believe it) 1.200 varieties of the edible sort produced in another flooring to get caught in another wheat sloves.

WHEAT—No. 2 Red. ... © 35 OATS—No. 2 Mixed. ... © 214 OATS—No. 2 Mixed. ... © 13 60 OATS—No. 2 Mixed. ... © 15 64 OATS—No. 2 Mixed. ... © 15 00 OATS—No. 2 wheat alone. - Paris Letter. is over.

HOME AND FARM.

-Lemon sage is very good in the early stages of colds. This is an infusion of sage mixed with hot lemon-

-If a colt is high strung and too ambitious give it bran. This food will keep up the muscular strength and not

give it too much vim. -Farm Journal. -Teach boys and girls the actual facts of life as soon as they are old enough to understand them, and give them the sense of responsibility without saddening them.-Ladies' Home Journal.

-Barks must be peeled as soon as the plants start to grow in spring; the rough outer bark must be shaved off and the inner collected to be dried quickly in sun rays; to be considered strictly prime, it must be clean and bright.

-For grape preserves squeeze the pulp out from each grape and boil the pulps till tender; then pass them through a colander to remove the seeds. Now add the skins to the pulp and juice; add a cupful of sugar to each cupful of fruit and boil all together until quite thick.

-Oyster Omelet: Add to one-half cup of cream six eggs beaten very light, season with salt and pour into a frying-pan containing a tablespconful of hot butter; drop in a dozen large oysters cut in halves or chopped fine with parsley, fry a light brown, and fold it over and serve at once. - House-

-One of the greatest mistakes in feeding fowls is overfeeding. When persons get the chicken fever they get enthusiastic in the cause, and stuff their fowls instead of feeding them. If the hens are allowed to run to grain in the barn they eat twice as much as they should—and the result is a short supply of eggs, and a failure in reaching the desired results. - Prairie Farmer.

-Root crops should be well dried before being stored. Mounds outside should be made water-tight, but a wisp of straw should be inserted to permit of ventilation. Roots are seldom injured by cold if properly protected, but too much warmth will im- priate stall. mediately damage them. When a mound is frozen on the surface there is then but little danger of injury if the roots are well covered.

-Cabbage plants intended for producing seed should be covered before stock and the manure applied back to freezing weather. Place the cabbage the soil, will return the elements in head (with the greater portion of the the same proportion as they took up. | stalk cut off) on the surface of the It is possible by using commercial ground, the ground slightly raised, manures to apply the elements that are and cover the head well with earth to deficient, and in doing this get good protect against frost. Early in the spring remove the covering, and with the head and it will soon send up the shoots for producing seed.

-Pigs' Feet: Take a set of pigs' feet; after cleaning, crack and scald in two waters and thoroughly scrape and clean them; put them on to boil with a small knuckle of veal; boil four or five hours or until very tender; pick out all the large bones; to the liquor, of which there should be two or three quarts, add two tablespoonfuls of salt, one teaspoonful (small one) of black pepper and nearly one quart of vinegar-if the vinegar is not very strong use one full quart. This quantity will

HANDLING HORSES.

The Frequent Runaways Are Largely Due to Bad Treatment.

It is very easy to ruin a young horse. An even, equable temper in the trainer is essential, as the horse notes the contrary quickly and becomes afraid. A writer in one of our English exchanges. in referring to the handling of horses,

Abuse may make a horse, that is naturally courageous, cowardly. If then he receives blows, the fear of them is uppermost, and any unknown noise is imagined to be a coming hurt, to escape from which is an uncontrolable impulse. The man who abuses his horse is often rewarded by the destruction of property and injury to himself, the results of runaways. But, when the courage of the colt is developed, it is not nearly so likely to run away, though he be hampered with blinds or abused by a cruel master, and it is hardly too much to assert that if properly treated he will never run away. Too often the training of a colt has an effect contrary to the cultivation of its courage. Forgetting that temper is the most valuable quality of the horse, its owner tries to "break" the temper-to cowe the animal.

The horse should be trained-not broken; the training requires firmness, mixed with much kindness. The man who has no control over his own temper, and whose judgment is warped by anger, is not fit to train a colt. A abuse will make it cowardly, so kind ness will make it courageous. Th basis of courage is confidence, and the first point is to secure the confidence of the colt. The next is to make th colt sure of his surroundings; water closely, and whenever he shows fear of any thing, let him smell it. If he ha confidence in his trainer, this will not b difficult. If he shies at a stump of rock, ride or drive him up to it. Driv him nearer and nearer the cars unti he is no longer afraid of them. Have the whistle sounded when his head i turned toward it, and repeat this til he ceases to start at the sound. Handl his limbs and touch them with a straig

till he no longer shrinks. The courageous horse, the one with the spirit trained, not broken, is the horse that does the most work. It doe not lag; to drive it is a pleasure. table, but by no means pets of nature. danger acts quickly and intelligently M. de Vilmorin's father was also a What horse has more courage than the

-A sagacious canine at Johnstow

BARNYARD BREVITIES.

CHICKENS are fond of buckwheat; better ay away several bushels as an occasional relish to their daily feed. INTELLIGENT feeding is as necessary for

the hog as for any other animal; it will no thrive on any thing and every thing. Many farmers do not appreciate the im portance of testing their cows and knowing which are making profitable returns and which are not.

HAVE a clean floor on which to feed the swine. A hog does not like to eat in filth. and it does not improve the pork to compel him to do it, either.

OVER-FEEDING the hens may be the cause of leg weakness, soft eggs, poor hatches and apoplexy, and is often the cause of hens becoming egg-bound. THE carrot is the root crop preferred by

horses. The mode of feeding carrots to horses is to chop them fine and give each horse half a peck three times a week. It is claimed that one pound of linsee

An excellent mode of keeping pumpkins is to take them to the barn and cover them well with hay. It will not injure a pumpkin if it freezes, provided it is used before it

Be sure that the stables are tight and warm before severe cold weather sets in, and that ample ventilation is provided, so that the stock will not suffer from vitiated air. To combine these two requires careful study and observation.

IF you have no litter round your place for winter for your hens to scratch in, get a lot of dry leaves as they drop in the fall, and in the middle of the winter when every thing is snowed up just watch how your hens will appreciate your thoughtfulness. It pays to saturate the woodwork of plows, harrows, rollers and such other farm implements as are necessarily exposed to the weather a good deal with kerosene oil. Pour it into all joints and cracks before painting so as to get the wood full of it.

THE peculiar value of oats for horses is explained as consisting in their facilitating digestion and developing energy in a very marked degree. While they are strongthening and nutritious, they do not fatten unduly, but give firm tissues, spirit and fire,

and endurance for prolonged work. System in storage and a place for every thing is as necessary in the barns and stables as in the dwelling house. The loss of time in hunting for an article is much more than the time spared to put it in a proper place. Every thing should be where it can be found easily when wanted, and every animal in the stables should have its appro-

FILL some unused shed, stall in the barn or the corner of any unused outbuilding, where it can be kept dry with coarse sand, the more gravel, if not too large, the better, for the fowls' use during the winter; spread out over the floor of the hen-house and the dropping board, for it lessens the work of cleaning more than half and makes the job much pleasanter.

OLD-WORLD AFFAIRS.

In Paris the remains from the dissectingrooms are now sent to the crematory at Pere la Chaise.

Never before has work been so abundant and so well remunerated in Paris as during the exhibition season.

A MARBLE statue of the Princess of Wales, by a French sculptor, is to be executed for erection at Copenhagen.

A ROMAN aqueduct has been lately cleaned and put in order at Sahelies, Spain, and now supplies the town with water. A FRENCH criminal judge collects tat-

tooes, viz. : "Illustrated" morsels of the skin of executed criminals, which he secures in A MOVEMENT has been started in England for the erection of a monument to Wilkie

Collins in Westminster Abbey or St. Paul's EUROPEAN railroads are fenced in, have no good crossings, the engines have neither bell nor headlight, and the engi-

neer must stand. A Bold Enterprise.

"Any one who will read an advertisement of the New York Ledger printed elsewhere in this paper, will learn of an outburst of enterprise in journalism such as has never been presented to the American people. The Ledger is out in a new form, and is printed on a fine quality of paper, with illustrations by celebrated artists.

Not contented with this elegance, Robert Bonner's Sons have enlarged the Ledger from eight pages to sixteen pages, but have reduced the subscription price from three dollars to the absurdly low price of two dellars, a year. In absurdly low price of two dollars a year. In addition to all this, Robert Bonner's Sons announce as contributors to the Ledger a staff of

popular, eminent and distinguished writers that is simply astounding."—Enterprise Advocate.

The advertisement referred to above is printed in this paper to-day. Read it for

RECENT discoveries made by the use of the spectroscope show that all the heavenly bodies appear to be composed of the same chemical elements.

It Don't Pay

to experiment with uncertain remedies, when afflicted with any of the ailments for which Dr. Pierce's Golden Medical Discov-ery is recommended, as it is so positively certain in its curative effects as to warrant its manufacturers in guaranteeing its its manufacturers in guaranteeing it to benefit or cure, or money paid for it is re-turned. It is warranted to cure all blood, skin and scalp diseases, salt-rheum, tetter, and all scrofulous sores and swellings, as well as consumption (which is scrofula of the lungs) if taken in time and given a fair

Don't hawk, hawk, blow, spit, and disgust everybody with your offensive breath, but use Dr. Sage's Catarrh Remedy and end it.

Good farming consists as much in over-

coming adverse circumstances as in proving fully favorable opportunities. THE MARKETS

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7.50		

From the Centropolis, Kansas City, Mo., December 1st, 1887. There is nothing so valuable to us as

There is nothing so valuable to us as health, but we do not realize this until we are deprived of it. How many of our readers awake in the morning with dull pains in the back and head, and find it a hard task to perform dally duties? These are symptoms of Malaria, and we know from personal trial they may be completely eradicated by Shallenberger's Andidote for Malaria. It is a simple and effective remedy, and we advise our readers to try it.

AT a Cochocton (Pa.) pie-eating match last week the winner disposed of eighteen pies in one hour and a half.

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A PHILADELPHIA man committed suicide rather than take some physic ordered by

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The array say to any young man young man is wanting good employment, work for Johnson & Co., following their instructions, and you will succeed." So writes the agent of B. F. Johnson & Co., 1009 Main st., Richmond, Va., and that's the way all of their men talk

RAILROADERS have asked the Government to compel the use of automatic brakes and

WHY rub, and toil, and wear out yourself and your clothes on washday, when, ever since 1864, Dobbins' Electric Soap has been offered on purpose to lighten your labor.

Now try it. Your grocer has it.

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Entitled to the Best. All are entitled to the best that their money will buy, so every family should have, at once, a bottle of the best family emedy, Syrup of Figs, to cleanse the system when costive or bilious. For sale in 50c and \$1.00 bottles by all leading druggists. A colored man of Yorkville, S. C., on a

small wager, recently ate seven dozen fried eggs in four hours. ALWAYS avoid harsh purgative pills. They first make you sick and then leave you con-stipated. Carter's Little Liver Pills regulate

the bowels and make you well. Dose, one pill. A PATIENT figurer has found that in 21,000,000 years the sun will be as dense as the

Don'r neglect a Cough. Take some Hale's Honey of Horehound and Tar instanter. Pike's Toothache Drops Cure in one minute. THE Czar of all the Russias plays a hand some silver cornet.

NEVER fail to cure sick headache, often the very first dose. This is what is said by all who try Carter's Little Liver Pills. THE Duke of Edinburgh is a persistent

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Many imitate, none equal, "Tansill's Punch" America's finest 5c Cigar.

THE Prince of Wales plays the banjo fair-

Catarrh

more or less. It originates in a cold, or succession of colds, combined with impure blood. Disagree-able flow from the nose, tickling in the throat, offensive breath, pain over and between the eyes, ringing and bursting noises in the ears, are the more common symptoms. Catarrh is cured by Hood's Sarsaparilla, which strikes directly at its cause by removing all impurities from the blood, building up the diseased tissues and giving healthy tone to the whole system.

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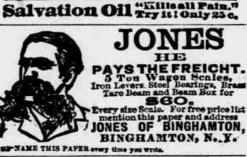
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